

## Pre-Veterinary Medicine Pathway Checklist

| <b>EOU Course Number</b> | <b>Course Title</b>                       | <b>Credit</b> | <b>Prerequisites</b>   |
|--------------------------|---|---------------|--|
| SOC 204                  | General Sociology                         | 5             |  |
| SOC 205                  | Social Problems                           | 5             |  |
| COM 112                  | Public Speaking                           | 3             |  |
| PSY 201                  | General Psychology                        | 4             |  |
| PSY 202                  | General Psychology                        | 4             | PSY 201  |
| ANTH 203                 | Cultural Anthropology                     | 5             |  |
| MATH 112                 | Precalculus                               | 4             | MATH 111 or equivalent   |
| STAT 327 or 352          | Stat. & Experimental Design or Statistics |               | STAT 327: MATH 105, 111 or higher with a C- or better<br>STAT 352: STAT 243 (or STAT 327) and MATH 111                     |
| PHYS 201 w/lab           | General Physics I                         | 4             | MATH 111 or equivalent. Math 112 recommended   |
| PHYS 202 w/lab           | General Physics II                        | 4             | PHYS 201 w/lab   |
| PHYS 203 w/lab           | General Physics III                       | 4             | PHYS 202 w/lab   |
| BIOL 211                 | Principals of Biology I                   | 4             | Co-requisite: BIOL 211L and CHEM 204   |
| BIOL 211 Lab             | Principals of Biology Lab                 | 1             | Co-requisites: BIOL 211, CHEM 204  |
| BIOL 212                 | Principals of Biology II                  | 4             | Prerequisites: BIOL 211, CHEM 204; co-requisite: CHEM 205  |
| BIOL 212 Lab             | Principals of Biology Lab                 | 1             | Prerequisites: BIOL 211, CHEM 204; co-requisites: BIOL 212, CHEM 205   |
| BIOL 213                 | Principals of Biology III                 | 4             | Prerequisites: BIOL 211, 212, CHEM 204, 205; co-requisite CHEM 206   |
| BIOL 213 Lab             | Principals of Biology Lab                 | 1             | Prerequisites: BIOL 211, 212, CHEM 204, 205; co-requisites BIOL 213, CHEM 206  |
| BIOL 317                 | Vertebrate Structure w/lab                | 5             | Prerequisites: Major level Biology sequence  |
| BIOL 341                 | Genetics w/lab                            | 4             | Prerequisite: BIOL 211, 212, 213 or a majors-level biology sequence. At least sophomore standing.                          |
| BIOL 342                 | Genetics w/lab                            | 4             | Prerequisites: BIOL 211, 212, 213 or a majors-level biology sequence, BIOL 341, and CHEM 334. At least sophomore standing. |

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|-------------------------|--|----|---|
| BIOL 445                | Immunology                                       | 3  | BIOL 211, 212, 213 or a majors-level biology sequence and CHEM 334. At least Junior standing. |
| BIOL 432                | Animal Physiology w/lab                          | 5  | BIOL 431  |
| BIOL 462                | Cellular Neurobiology                            | 3  | BIOL 431  |
| CHEM 204 w/lab          | General Chemistry I                              | 5  | HS CHEM or consent of instructor & MATH 111 (can be taken concurrently)                       |
| CHEM 205 w/lab          | General Chemistry II                             | 5  | CHEM 204 or consent of instructor. MATH 112 or equiv. recommended.                            |
| CHEM 206 w/lab          | General Chemistry III                            | 5  | CHEM 205 or equivalent  |
| CHEM 334                | Organic Chemistry I                              | 4  | CHEM 205 or equivalent  |
| CHEM 335 & 338          | Organic Chemistry II w/lab                       | 5  | CHEM 334 or equivalent  |
| CHEM 336 & 339          | Organic Chemistry III w/lab                      | 5  | CHEM 335 & 338  |
| CHEM 450                | Structural Biochemistry                          | 4  | CHEM 336  |
| CHEM 451 & 454          | Metabolic Chemistry & Biochemistry Lab           | 6  | CHEM 450 Structural Biochemistry and CHEM 336 or equivalent or consent of instructor.         |
| <b>Optional Courses</b> |  |    |   |
| BIOL 231-232            | 1 full year of Human Anatomy & Physiology w/labs | 12 | Math 070 or higher  |

It is highly recommended that students also take courses in Animal Nutrition or complete an Animal Science minor through the EOU partnership with OSU. Student must meet with an OSU advisor in order to map out requirements for the AS minor.

The courses listed on this check list include the most commonly required veterinary medicine prerequisites and students typically must also complete a Baccalaureate degree in addition to these courses.

\*\*\*The pre-veterinary medicine curriculum at EOU is designed to meet the requirements for admission to schools of veterinary medicine. Additionally, the curriculum is designed to prepare students for the Graduate Record Examination (GRE) or Medical College Admission Test (MCAT) required by most schools of veterinary medicine.

Students are strongly encouraged to work closely with their advisor when choosing appropriate coursework.

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